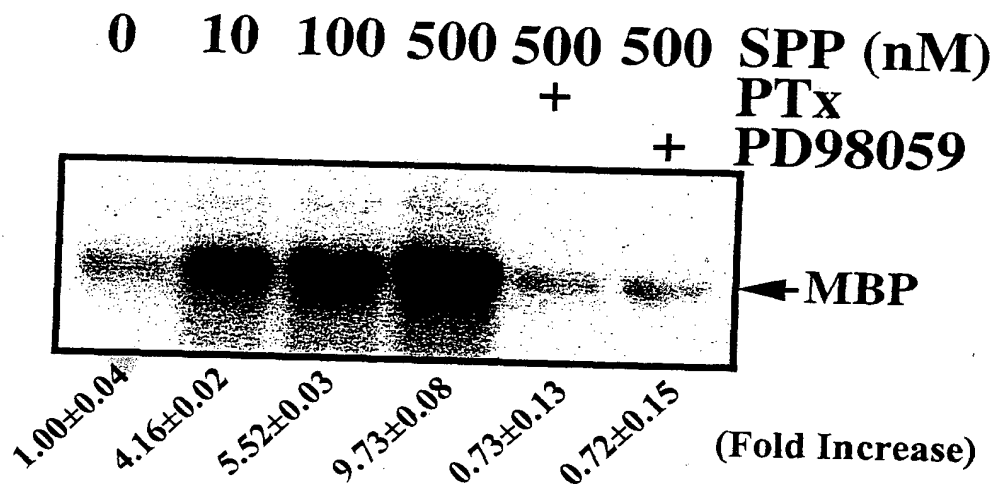FIG. 1

FIG. 3
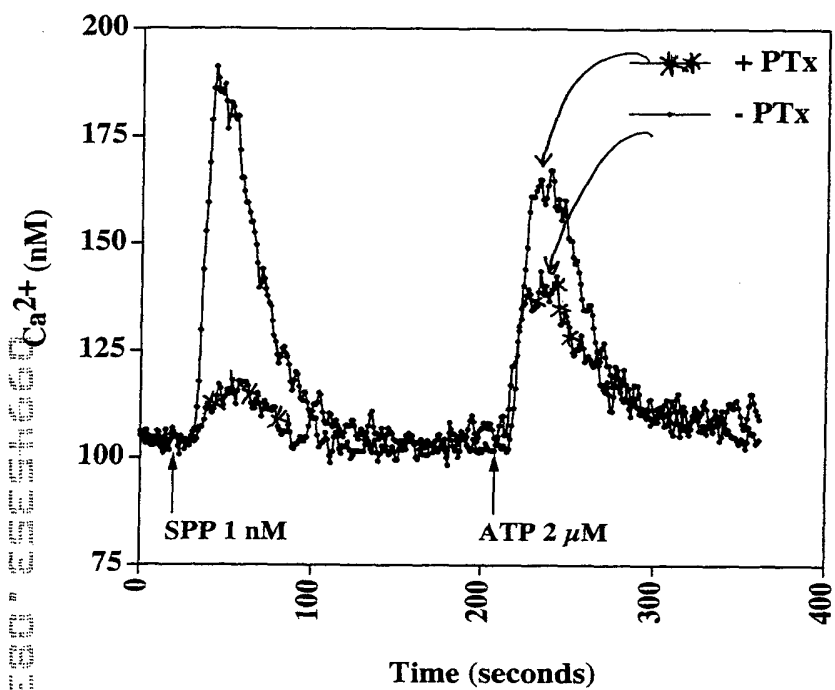
FIG. 2A

FIG. 2 B

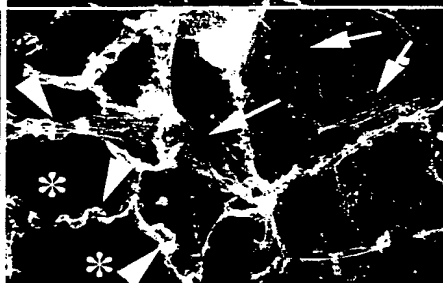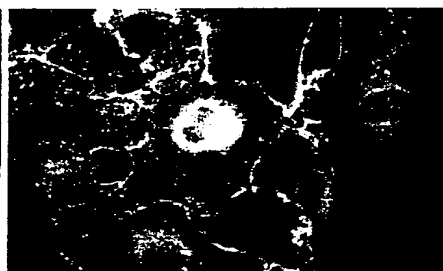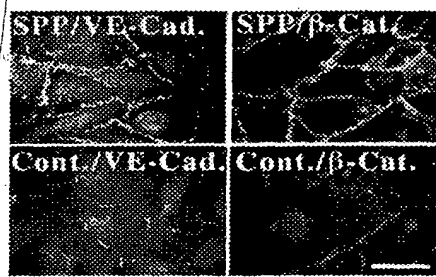FITC-IgG   Actin

IgG+C3/Cont.

IgG+C3/SPP

IgG+N17Rac

IgG+iSPP

FIG. 4

FIG. 5
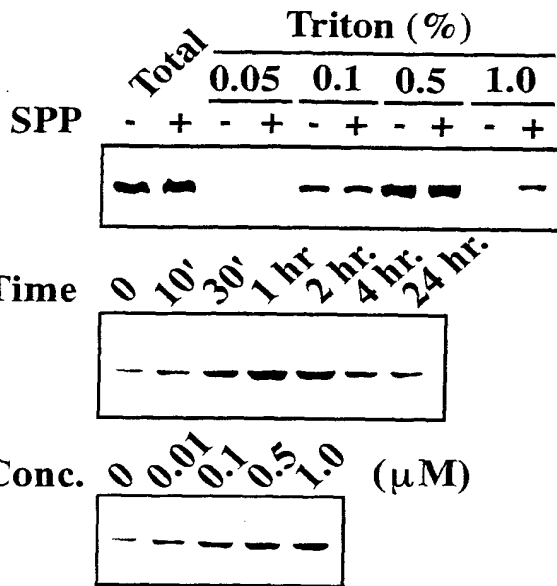

FIG. 6

FIG. 7

FIG. 8A

FITC-IgG   **β-Cat.**

FIG. 8C

FITC-IgG   VE-Cad.

FIG. 8B

NT

SPP

14% FBS

FIG. 9A

FIG. 9B

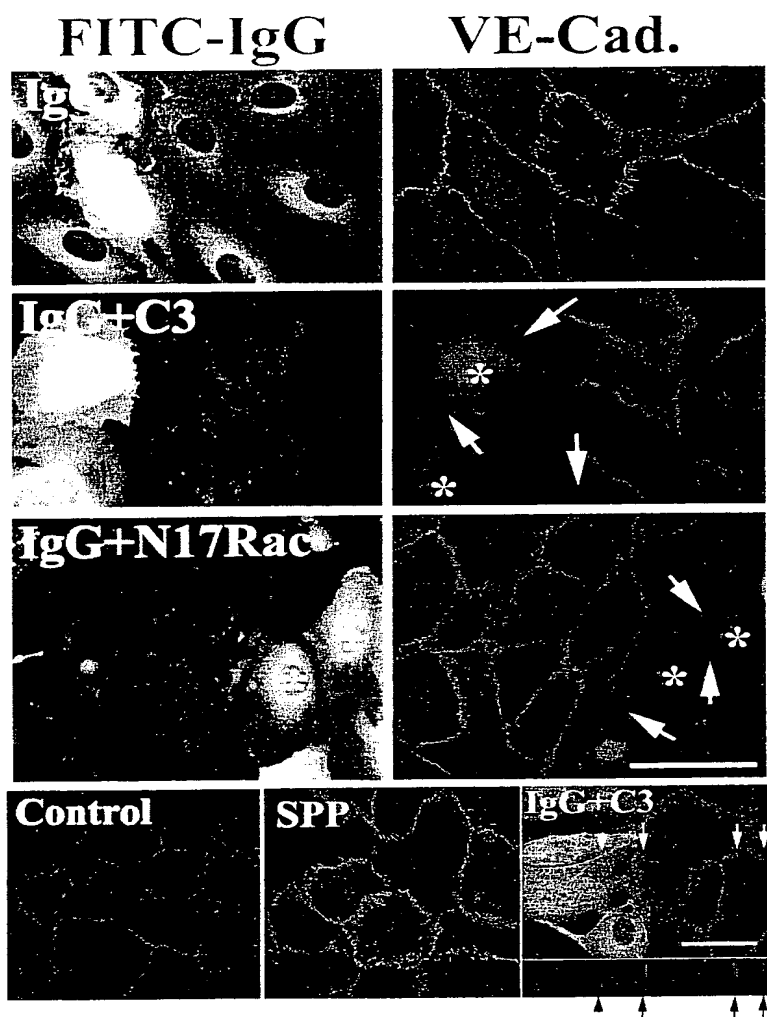| SPP | − | + | + | + | + | + | + |
| (μ g/ml) | − | − | 2.5 | 10 | 50 | 10 | 50 |
| | | | Anti-VE-Cad | | | mIgG | |

FIG. 9C
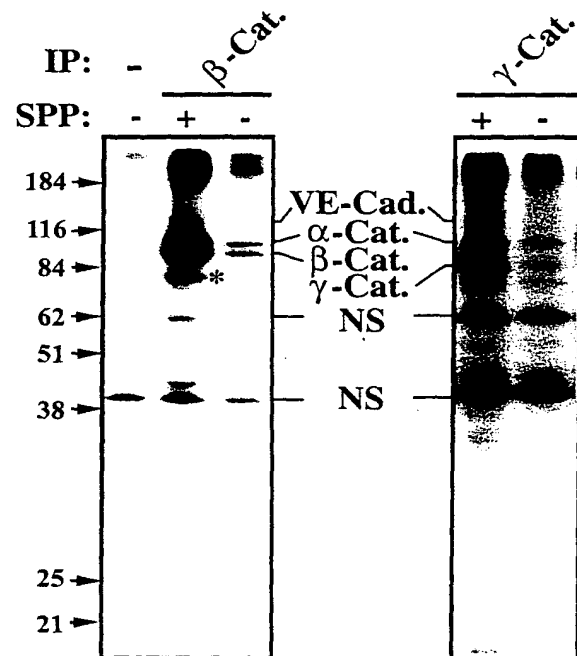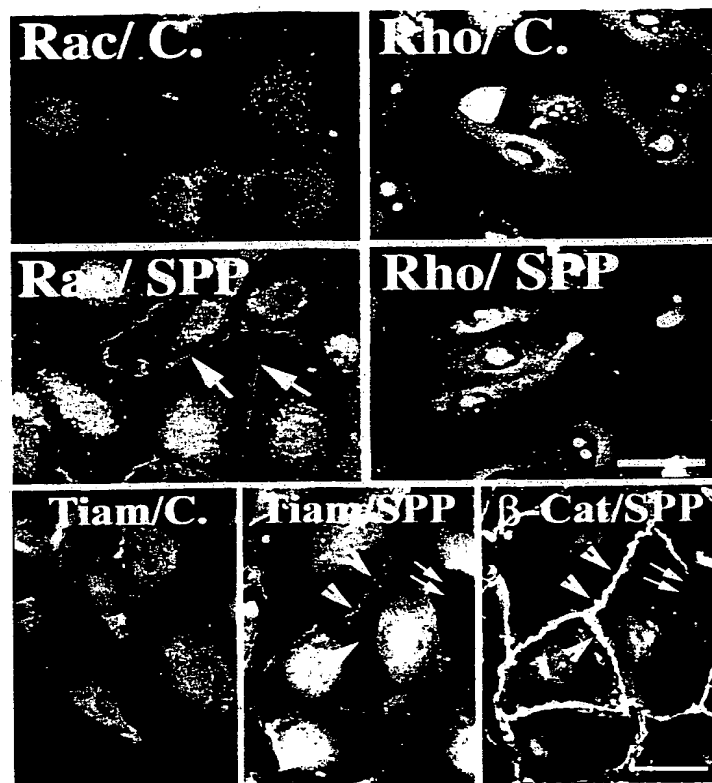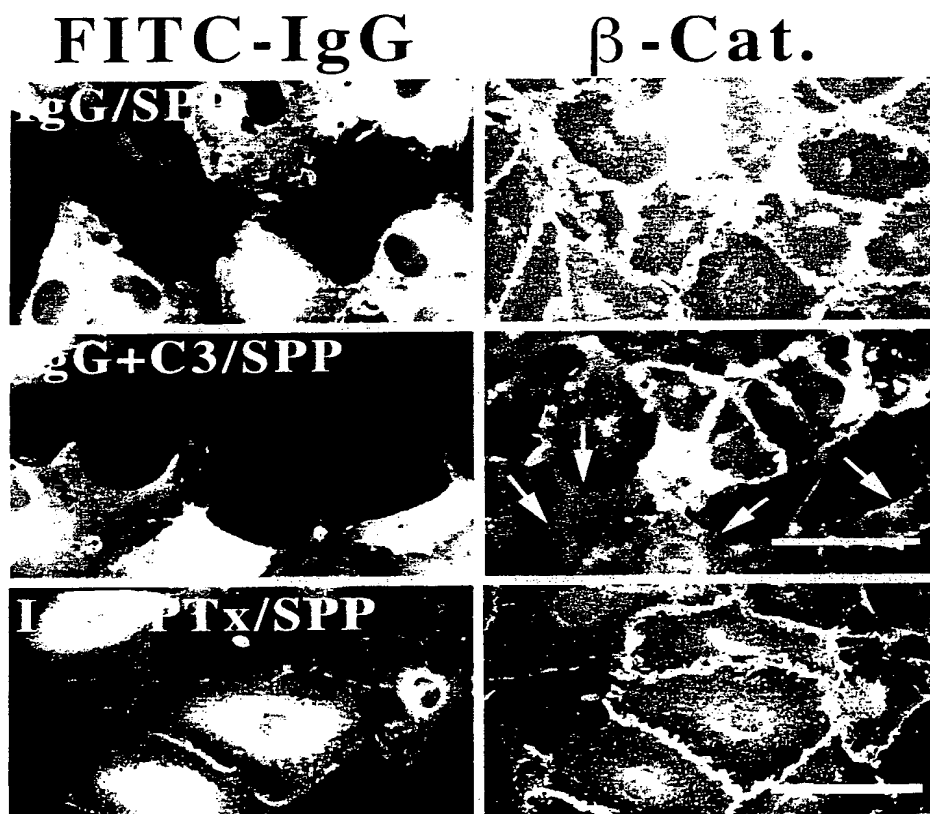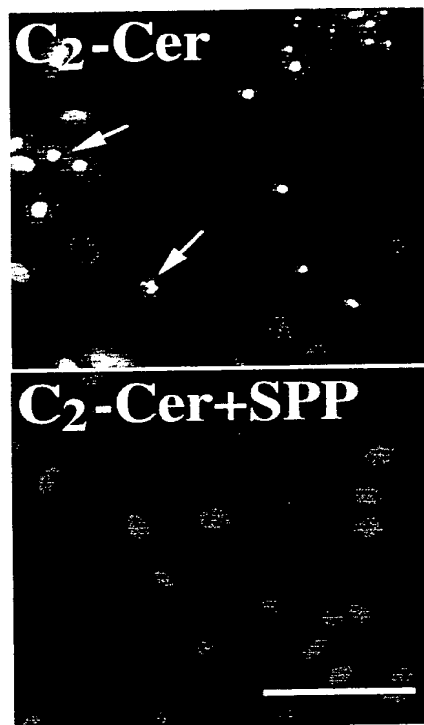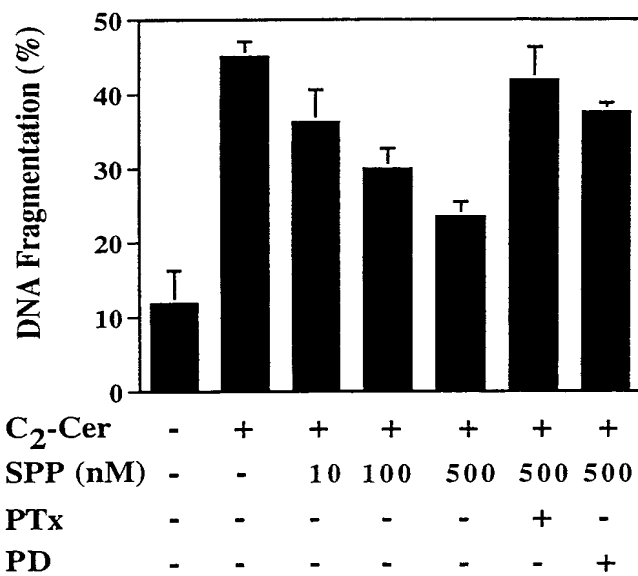
FIG. 10A

FIG. 10B
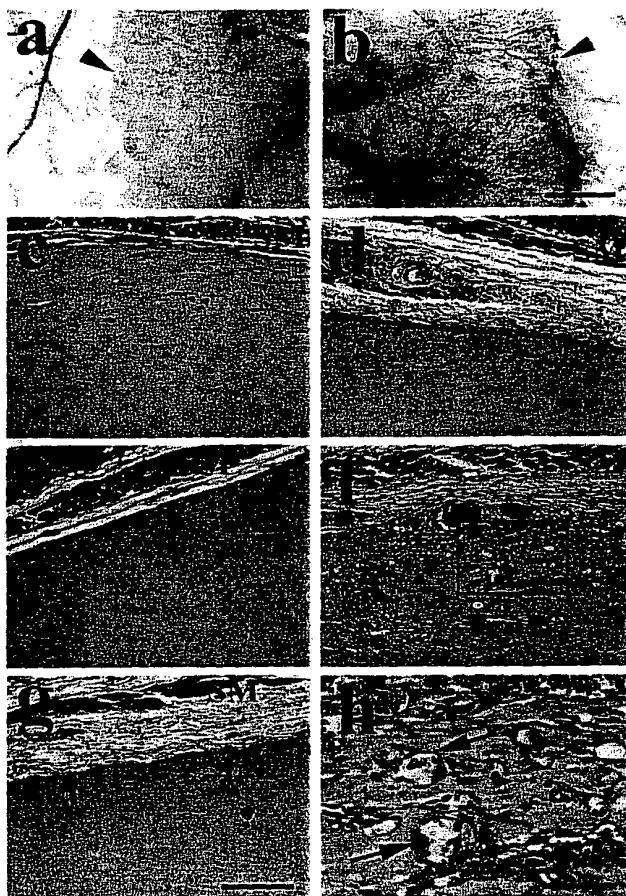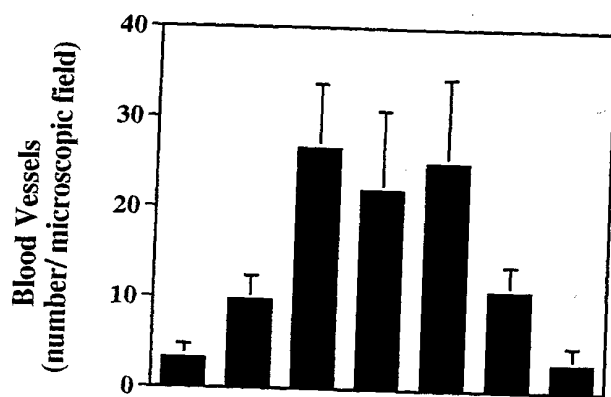
FIG. 11A

FIG. 11 B

FGF	−	+	+	+	+	+	−
SPP (μM)	−	−	0.5	1	5	−	5
SPH (μM)	−	−	−	−	−	5	−
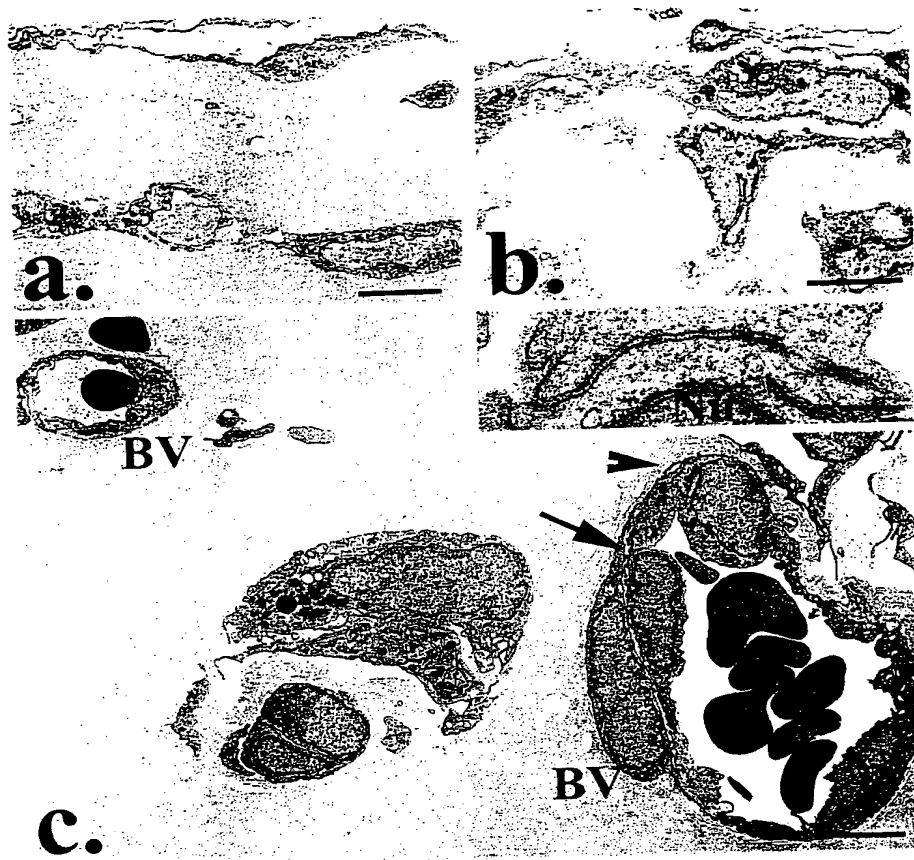
FIG. IIC

FIG. 12

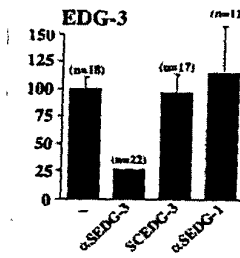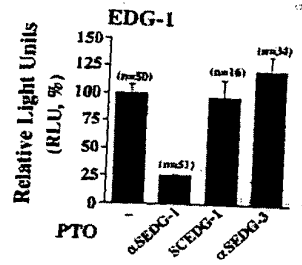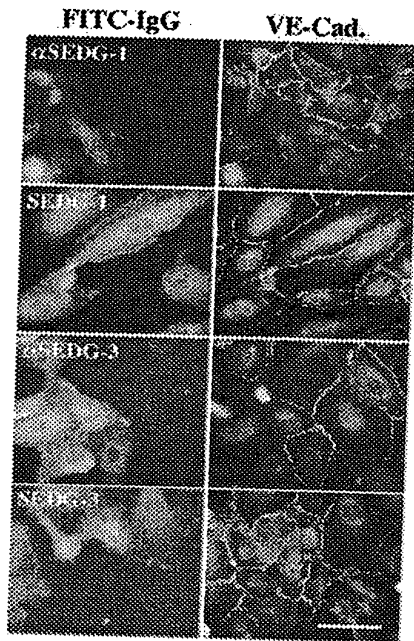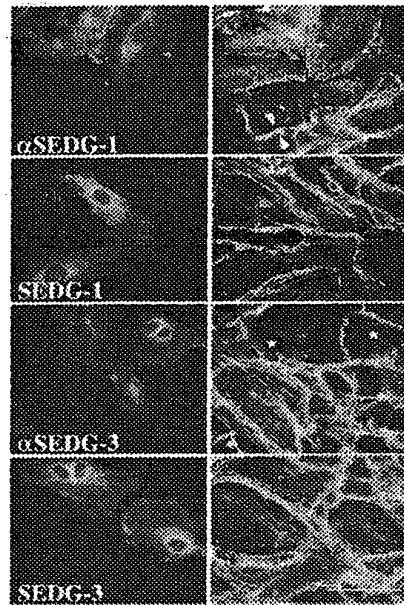| SEQ ID NO:1	5'-GAC GCT GGT GGG CCC CAT-3'	(antisense EDG-1)
SEQ ID NO:2	5'-GCT GGT GGG CCC CAT GGT-3'	(antisense EDG-1)
SEQ ID NO:3	5'-ATG GGG CCC ACC AGC GTC-3'	(sense EDG-1)
SEQ ID NO:4	5'-TGA TCC TTG GCG GGG CCG-3'	(scrambled EDG-1)
SEQ ID NO:5	5'-CGG GAG GGC AGT TGC CAT-3'	(antisense EDG-3)
SEQ ID NO:6	5'-ATG GCA ACT GCC CTC CCG-3'	(sense EDG-3)
SEQ ID NO:7	5'-ATC CGT CAA GCG GGG GTG-3'	(scrambled EDG-3)
SEQ ID NO:8	5'-CGA GTA CAA GCT GCC CAT-3'	(antisense EDG-5)

FIG. 13

FIG. 14

FIG. 15

FIG. 16

FIG. 17

Fig. 18

GST
GST-i3
+VE

185—
119—
85—
62— ←Akt
51—
38—

26—

Fig. 19

GST
EDG-1-i3
EDG-3-i3
EDG-5-i3
H2B
casein

—36
—26
—20
—14

←GST-i3
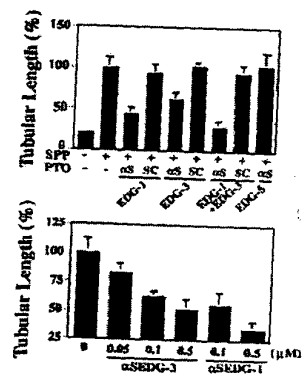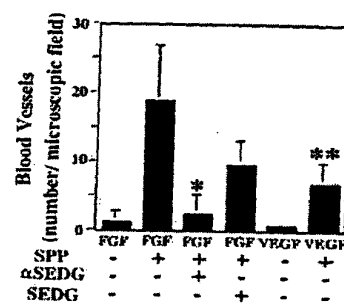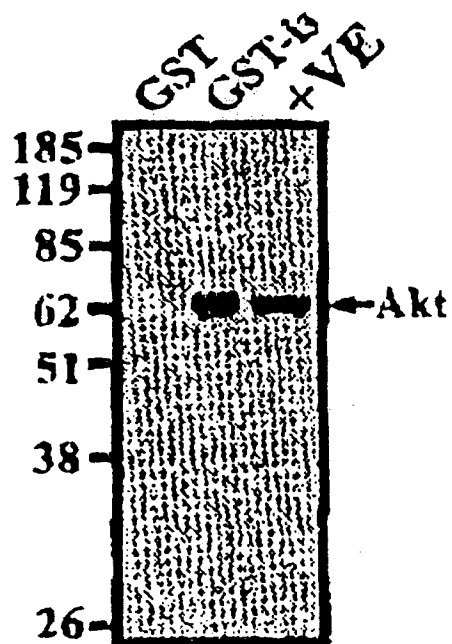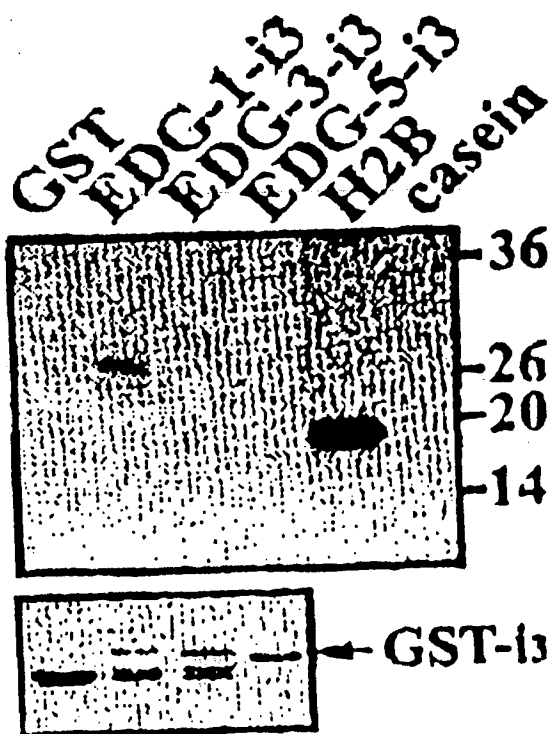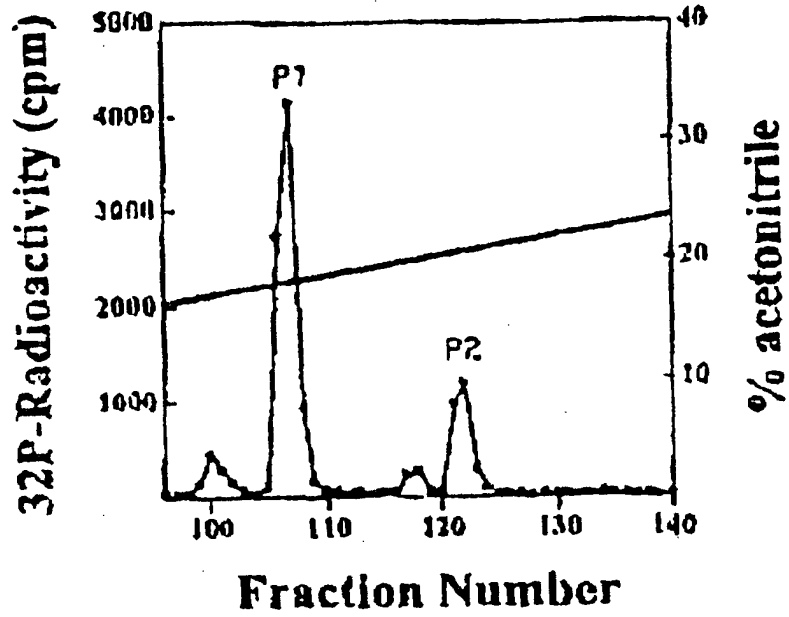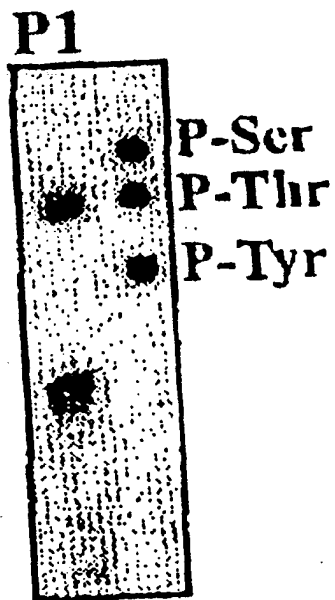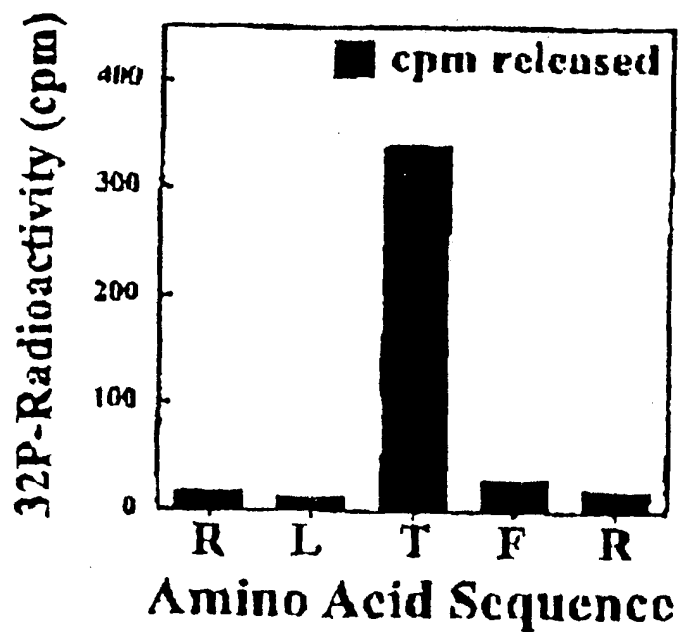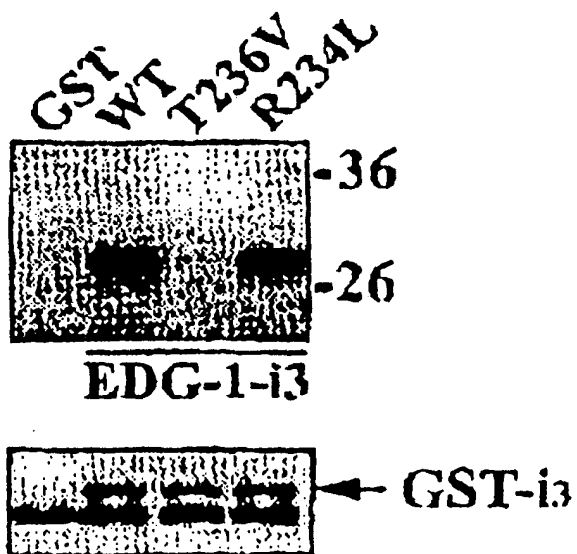
Fig
20A

Fig.
20 B

Fig 21

Fig. 22

Fig 23
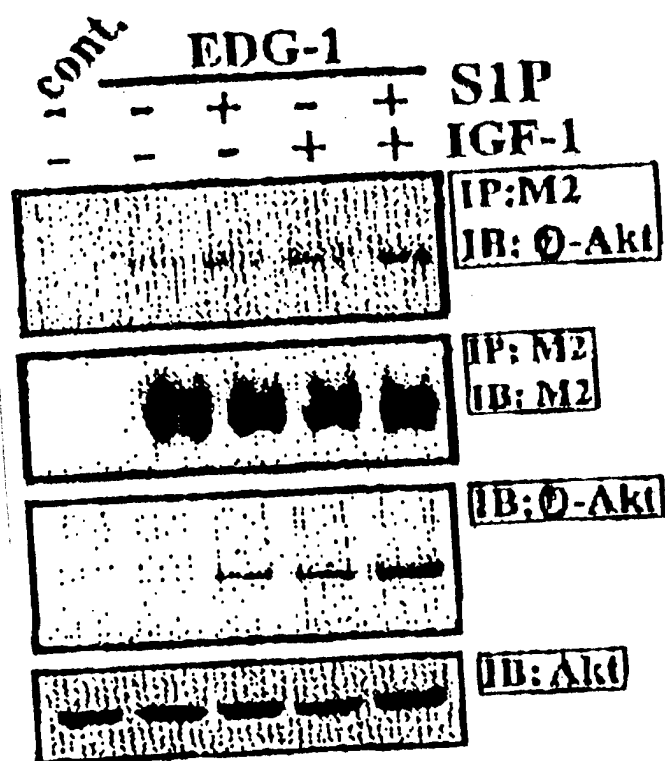
Fig 24

Fig 25

Fig 26

Fig 27

| | 0 | 5 | 15 | 60 | S1P (min) |

	-	+	+	+	S1P
	-	-	-	+	LY
	-	-	+	-	wort

	-	-	-	+	dn-Akt
	-	-	+	-	wt-Akt
	+	+	-	-	β-gal
	-	+	+	+	S1P
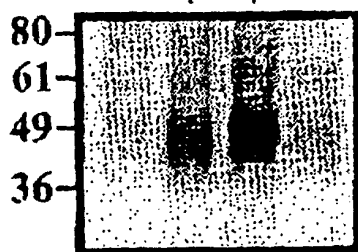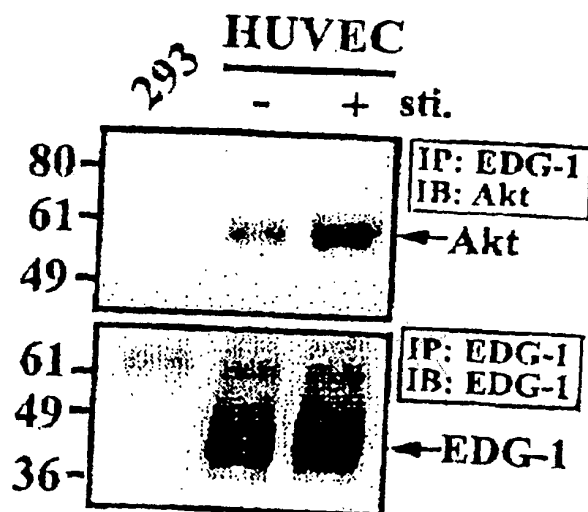
Fig 28

293   HUVEC
      —   +   sti.

IP: EDG-1
IB: Akt   ◄—Akt

IP: EDG-1
IB: EDG-1   ◄—EDG-1

Fig 29

Fig 30

Fig 31

150

Relative Light Units
(RLU, %)

100

50

0

S1P (nM)   1   50   1   50

EDG-1^{WT} EDG-1TA

Fig 32

pCDNA   EDG-1^{WT} EDG-1TA

0 5 15   0 5 15 30 60   0 5 15 30 60   (S1P / min.)
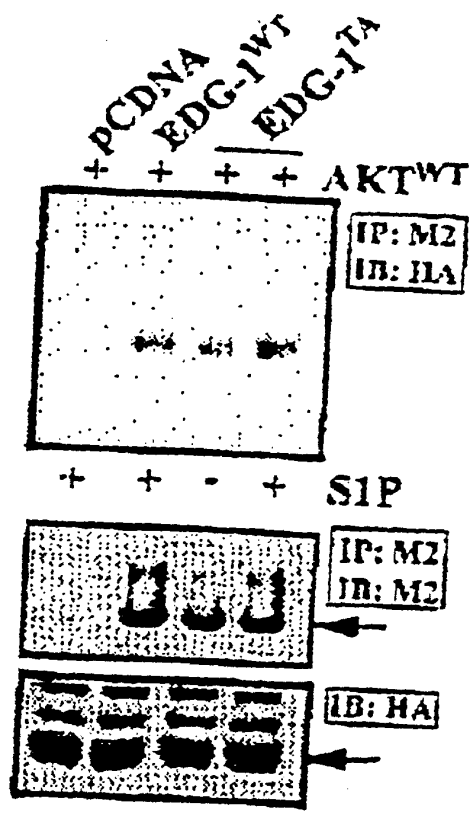
⟵ ℗-ERK-1
⟵ ℗-ERK-2

⟵ ℗-Akt

⟵ ℗-GSK

⟵ ℗-P70^{S6K}

⟵ ℗-P90^{RSK}

⟵ actin
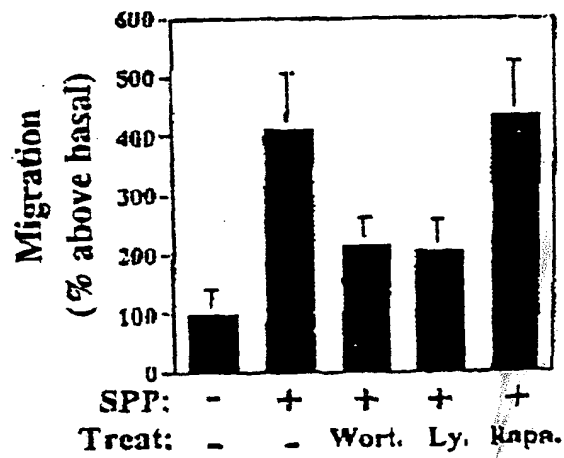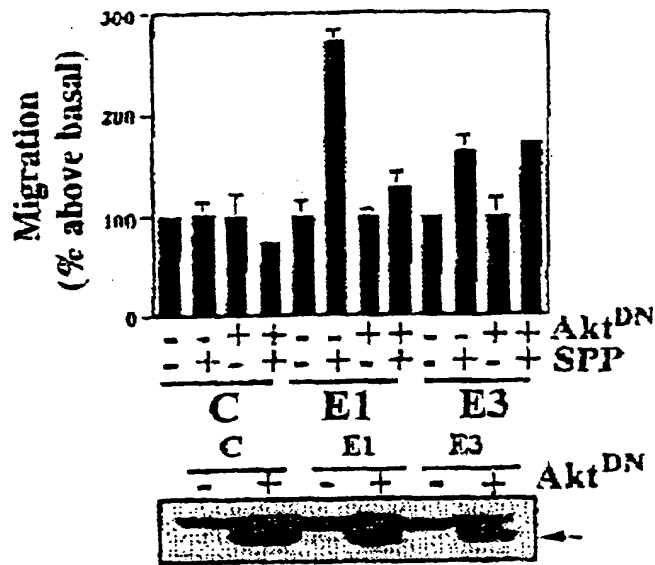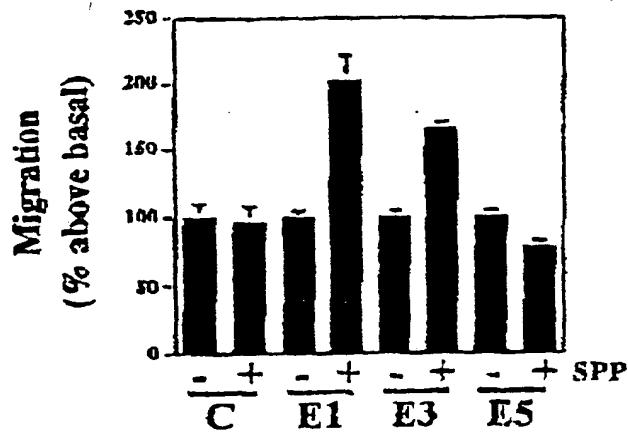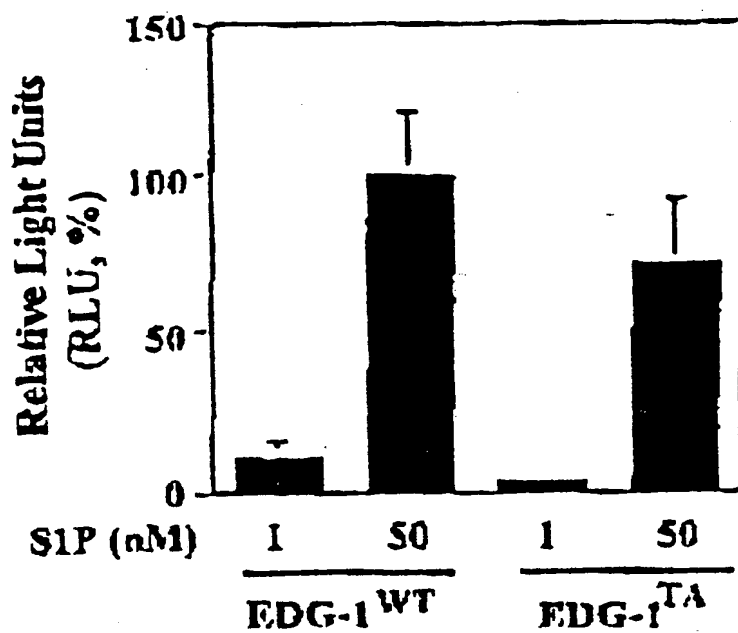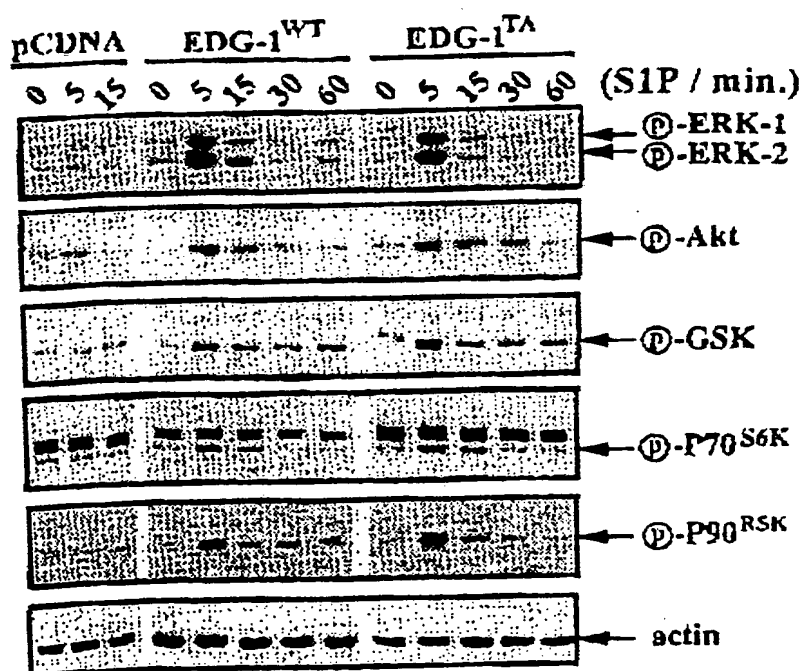
Fig 33

Fig 34

Fig 35

Fig 36 A

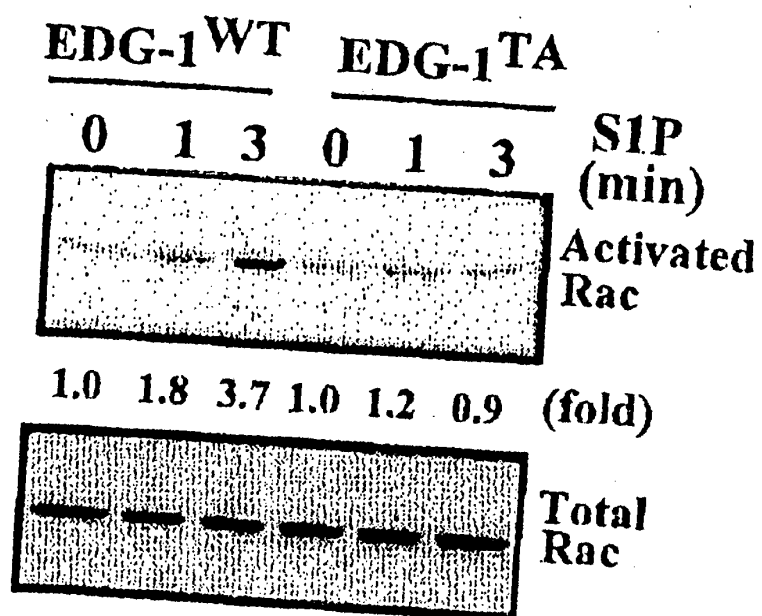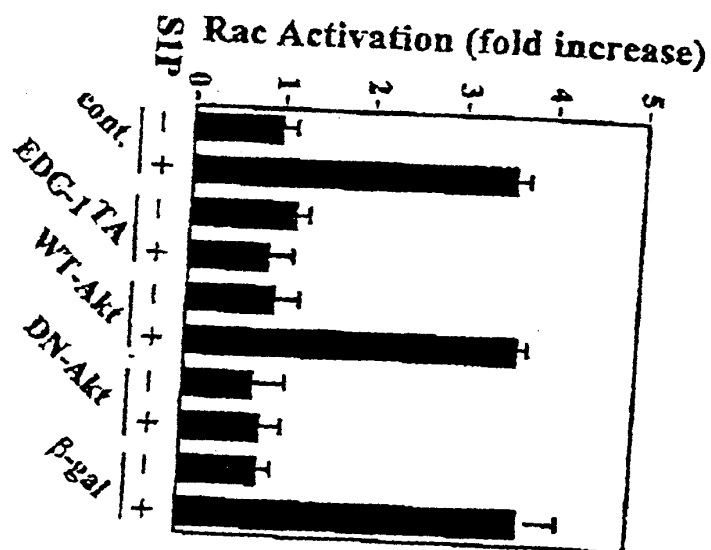

Fig 36 B
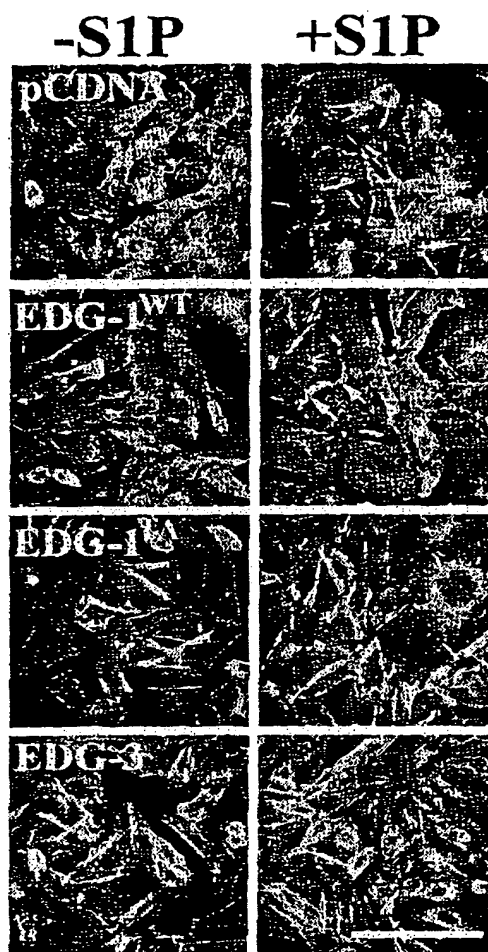
Fig 37

Fig 38 A

Fig 38 B

Fig 39 A

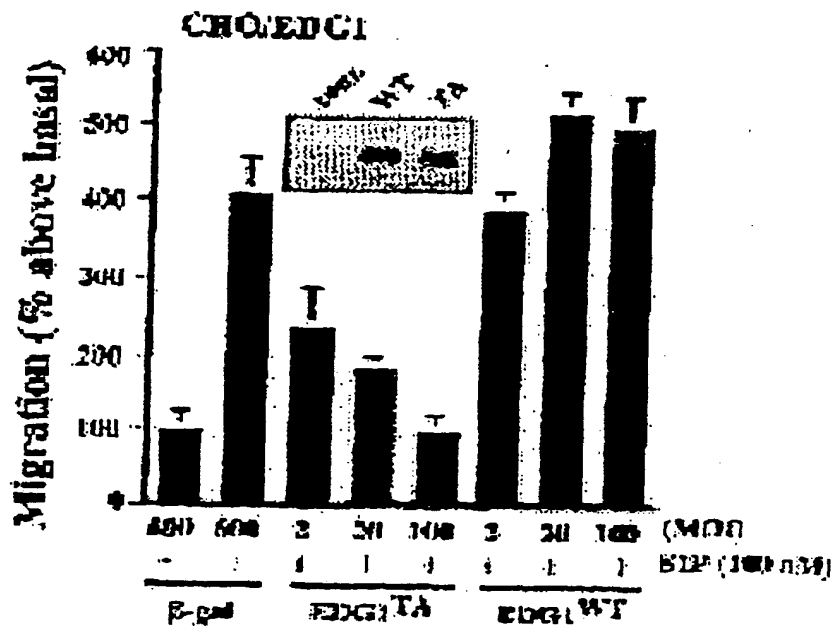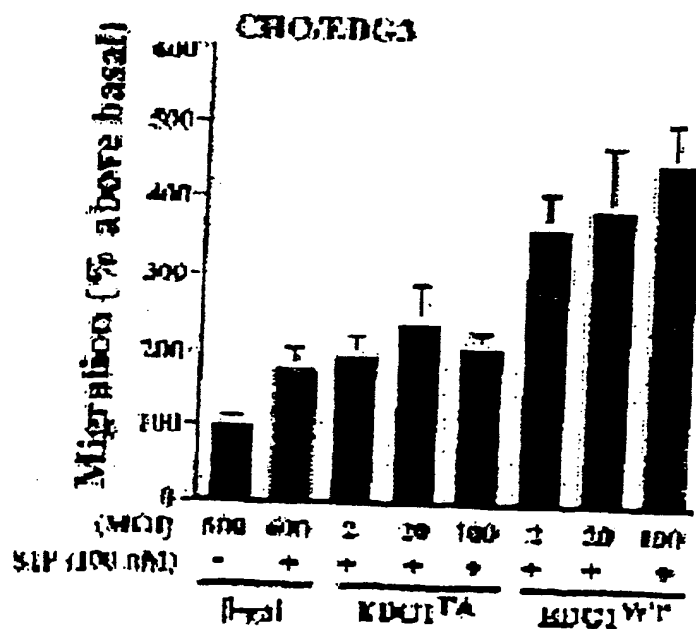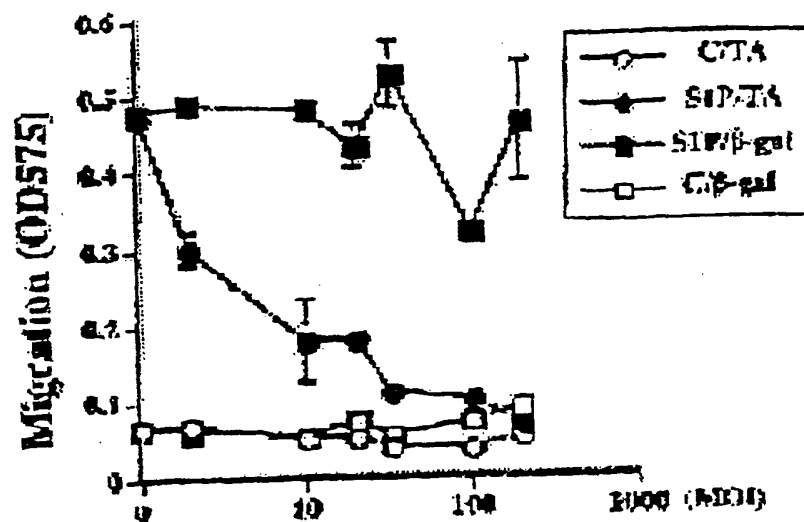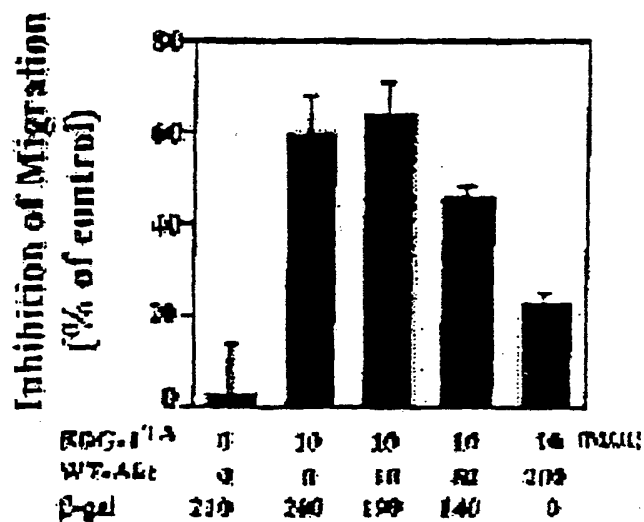
Fig 39 B

Fig 40

Fig 41

Fig 42

a (2.6±0.5) b (12.9±0.8)
c (11.6±0.9) d (15.4±1.4)
e (3.8±0.7) f (9.5±2.1)

Fig 43

EDG-1A MG
EDG-1T MG